

## **Mining Big Data in Telecommunications Industry: Challenges, Techniques, and Revenue Opportunity**

**Authors :** Hoda A. Abdel Hafez

**Abstract :** Mining big data represents a big challenge nowadays. Many types of research are concerned with mining massive amounts of data and big data streams. Mining big data faces a lot of challenges including scalability, speed, heterogeneity, accuracy, provenance and privacy. In telecommunication industry, mining big data is like a mining for gold; it represents a big opportunity and maximizing the revenue streams in this industry. This paper discusses the characteristics of big data (volume, variety, velocity and veracity), data mining techniques and tools for handling very large data sets, mining big data in telecommunication and the benefits and opportunities gained from them.

**Keywords :** mining big data, big data, machine learning, telecommunication

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